

What is claimed is:

1. A communications node, adapted for use in a mobile wireless ad-hoc communications network, comprising:

a transceiver, adapted to transmit and receive messages to and from other nodes in said network; and

a controller, adapted to control said transceiver to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

2. A communications node as claimed in claim 1, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

3. A communications node as claimed in claim 1, wherein:

said network includes a multi-channel mobile wireless ad-hoc network; and

said transceiver is adapted to transmit and receive said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

4. A communications node as claimed in claim 1, wherein:

said network includes at least one access point, adapted to enable said node to communicate with a network other than said network; and

said destination node includes said access point.

5. A mobile wireless ad-hoc communications network, comprising:

a plurality of nodes, adapted to communicate with each other; and

at least one access point, adapted to enable said nodes to communicate with another network;

wherein when a transmitting one of said nodes transmits a communications signal to another said node or a said access point, said transmitting node applies a spreading sequence to said communications signal to spread said communications signal, said spreading sequence being selected based on information pertaining to an address of said another node or said access point to which said transmitting node is transmitting, and information pertaining to at least one other factor.

6. A mobile wireless ad-hoc communications network as claimed in claim 5, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

7. A mobile wireless ad-hoc communications network as claimed in claim 5, wherein:

said other network includes at least one of the PSTN, another ad-hoc network and the Internet.

8. A method for controlling a communications node to communicate in a mobile wireless ad-hoc communications network, the method comprising:

enabling said communications node to transmit and receive messages to and from other nodes in said network; and

controlling said communications node to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

9. A method as claimed in claim 8, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

10. A method as claimed in claim 8, wherein:  
said network includes a multi-channel mobile wireless ad-hoc network; and  
said enabling enables said communications node to transmit and receive said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

11. A method as claimed in claim 8, wherein:  
said network includes at least one access point, adapted to enable said communications nodes to communicate with a network other than said network; and  
said destination node includes said access point.

12. A method for communicating in a mobile wireless ad-hoc communications network, comprising:  
enabling a plurality of nodes in said network to communicate with each other;  
establishing at least one access point, adapted to provide said nodes with access to another network; and  
when a transmitting one of said nodes transmits a communications signal to another said node or a said access point, applying a spreading sequence to said communications signal to spread said communications signal, said spreading sequence being selected based on information pertaining to an address of said another node or said access point to which said transmitting node is transmitting, and information pertaining to at least one other factor.

13. A method as claimed in claim 12, wherein:  
said at least one other factor includes at least one of a network prefix, time of day, and provider information.

14. A method as claimed in claim 12, wherein:  
said other network includes at least one of the PSTN, another ad-hoc network and the Internet.

15. A computer readable medium of instructions for controlling a communications node to communicate in a mobile wireless ad-hoc communications network, the instructions comprising:

a first set of instructions, adapted to enable said communications node to transmit and receive messages to and from other nodes in said network; and

a second set of instructions, adapted to control said communications node to spread a transmission message for transmission to a destination node in said network based on information pertaining to an address of said destination node and information pertaining to at least one other factor.

16. A computer readable medium of instructions as claimed in claim 15, wherein:

said at least one other factor includes at least one of a network prefix, time of day, and provider information.

17. A computer readable medium of instructions as claimed in claim 15, wherein:

said network includes a multi-channel mobile wireless ad-hoc network; and

said first set of instructions is further adapted to enable said communications node to transmit and receive said messages to and from said other nodes in said multi-channel mobile wireless ad-hoc network.

18. A computer readable medium of instructions as claimed in claim 15, wherein:

said network includes at least one access point, adapted to enable said communications node to communicate with a network other than said network; and

said destination node includes said access point.